

INTERNATIONAL SEARCH REPORT

PCT/IB2004/003674

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G02B6/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02B H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/054129 A1 (KRAGL, HANS) 11 July 2002 (2002-07-11)	1-4, 6-14, 19, 21-24
Y	pages 9-11 figures 1a, 4, 5	5, 15-18, 20, 30-42
X	----- US 5 764 832 A (TABUCHI ET AL) 9 June 1998 (1998-06-09) column 13, lines 11-23 column 15, line 18 - column 16, line 25 figures 21, 22	1-3, 6-9, 25-29
Y	----- US 5 337 398 A (BENZONI ET AL) 9 August 1994 (1994-08-09) column 7, lines 16-62 figure 12	30-34, 40-42
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
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Date of the actual completion of the international search

27 January 2005

Date of mailing of the international search report

04/02/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 101 17 890 A1 (OSRAM OPTO SEMICONDUCTORS GMBH & CO. OHG) 24 October 2002 (2002-10-24) paragraphs '0043!, '0044! paragraphs '0063! - '0066! figures 1-5 -----	35-37
Y	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 04, 31 May 1995 (1995-05-31) -& JP 07 030154 A (OMRON CORP), 31 January 1995 (1995-01-31) abstract; figures 5,7 -----	38-40
Y	US 3 859 536 A (THIEL ET AL) 7 January 1975 (1975-01-07) column 3, lines 29-56 figure 1 -----	5,20
Y	US 4 612 670 A (HENDERSON ET AL) 16 September 1986 (1986-09-16) column 5, lines 3-42 column 6, line 66 - column 7, line 39 figures 6,7 -----	15-18

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PCT/IB2004/003674

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02054129	A1	11-07-2002	DE 10065624 A1 EP 1348143 A1 JP 2004520612 T US 2004008952 A1	18-07-2002 01-10-2003 08-07-2004 15-01-2004
US 5764832	A	09-06-1998	JP 3484543 B2 JP 6275870 A DE 4402422 A1 US 5644667 A	06-01-2004 30-09-1994 29-09-1994 01-07-1997
US 5337398	A	09-08-1994	DE 69313789 D1 DE 69313789 T2 EP 0600645 A1 JP 6208037 A	16-10-1997 26-03-1998 08-06-1994 26-07-1994
DE 10117890	A1	24-10-2002	NONE	
JP 07030154	A	31-01-1995	NONE	
US 3859536	A	07-01-1975	AT 353494 B AT 1275 A CA 1022238 A1 DE 2461795 A1 FR 2257150 A1 GB 1466486 A IT 1027890 B JP 1245774 C JP 50103201 A JP 59022202 B NL 7500110 A	12-11-1979 15-04-1979 06-12-1977 10-07-1975 01-08-1975 09-03-1977 20-12-1978 25-12-1984 15-08-1975 25-05-1984 09-07-1975
US 4612670	A	16-09-1986	NONE	

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